

Tuesday 6 June 2023 – Afternoon

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 2 hours



You must have:

- Question Paper H640/01 (inside this document)
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

Last name

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by $g \text{ m s}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION

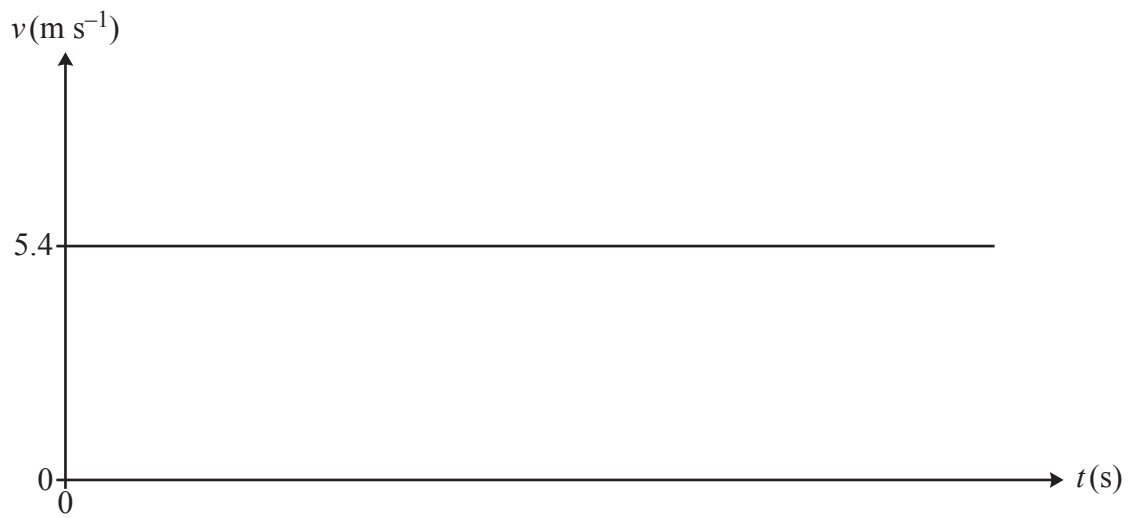
- This document has **20** pages.

ADVICE

- Read each question carefully before you start your answer.

Section A (23 marks)

1	
2	

8(a)**8(b)****8(c)**

8(d)	

9(a)	

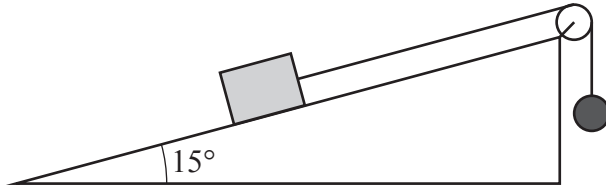
10(a)	
	$a =$
	$b =$
10(b)	
10(c)	

11(a)(i)	
11(a)(ii)	
11(b)(i)	
11(b)(ii)	

11(c)	
11(d)	

12(a)	
12(b)	
12(c)	
12(d)	

13(a)



13(b)

13(c)

(answer space continued on next page)

14(a)	
14(b)	
14(c)	

